

Integrated Japanese I

Registration code	0061111	0061112	
Class room	A32	A33	
Instructor	TOKUHIRO Yasuyo	HAJIKANO Are	
Contact	Phone	747-6557	747-6542
	E-mail	tokuhiro@ecis.nagoya-u.ac.jp	hajikano@ecis.nagoya-u.ac.jp
	Office	Room308 Education Center for International Students	
Course Category	Language and Culture I	Credits	3.0
Term(Semester)/Day/Period	I (1st year 1st semester) / Mon,Wed / 1 (8:45~10:15)		
Target Schools (Programs)	L(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		
<p>●Course Aims This course aims to provide a basic knowledge of Japanese which will enable students to function effectively in everyday life.</p> <p>●Course Prerequisites Students are required to take a placement test before the beginning of the Fall semester. The course level is decided upon in consultation with teachers. Those students who register for this course should also register for the Japanese Language Seminar (Communication) 1 in the same semester.</p> <p>●Course Content ①Students will learn comprehensive Japanese, necessary to live both on and off campus. Each lesson will cover new grammar, expressions and vocabulary (including Hiragana, Katakana and Kanji). A short test will be given each lesson. ②Students are required to read textbooks (especially "Elementary Japanese 1 DAICHI Translation of the Main Text and Grammar Notes") as preparation for each lesson.</p> <p>●Course Evaluation Methods Attendance 30%, Class Participation 30%, Mid-term Examination 20%, Final examination 20%</p> <p>●Notice for Students Students must maintain course attendance rates of 80% or higher and are required to take mid-term and final examinations. Those who fail to meet these requirements will not earn credits. In general, in the case of absence, make-up tests and examinations will not be possible (except in the case of serious extenuating circumstances). Three late arrivals or early departures of 15 minutes or more will be regarded as a one-lesson absence.</p>			
Textbook	1. 『日本語初級 1 大地 メインテキスト』 スリーエーネットワーク Elementary Japanese 1 DAICH Main Text 2. 『日本語初級 1 大地 文型説明と翻訳<英語版>』 スリーエーネットワーク Elementary Japanese 1 DAICH Translation of the Main Text and Grammar Notes 3. 『日本語初級 1 大地 基礎問題集』スリーエーネットワーク Elementary Japanese 1 DAICH Work Book 4. 『Write Now! Kanji for Beginners』 スリーエーネットワーク		
Reference Book			

Linear Algebra I

Registration code	0061211	Credits	2.0
Course Category	Basic Courses in Natural Sciences	Class room	C43
Term(Semester)/Day/Period	I (1st year 1st semester) / Mon / 2 (10:30~12:00)		
Instructor	RICHARD Serge Charles		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

● **Aim of the course**

Linearity now is the most basic concept for the handling of quantities in current natural science. Indispensable in quantum mechanics and relativity, its use has spread across all branches of natural science and beyond. Linear algebra, developed in the nineteenth century, is the mathematical theory of linearity. The first half of this one-year course focuses on the techniques for manipulating systems of linear equations and their application to analytic geometry (in two and three dimensions). Emphasis is placed on the ability to solve systems of linear equations including a thorough understanding of the determinant of a matrix.

● **Prerequisites**

Some familiarity with 2x2 and 3x3 matrices is desirable.

● **Outline of lectures**

The standard outline of lectures is given below, but contents may vary depending on the instructor and the class.

1. Basic analytic geometry

Basic analytic geometry including the equation of a line in the plane and of a plane in space expressed through direction and normal vectors.

(Keywords)

Equations for lines and planes, direction vector, normal vector, direction vector, inner product.

(Further Topics)

Linear combinations and linear independence of three-dimensional vectors

2. Matrices

Matrices (mainly 2x2 and 3x3 matrices) and their arithmetic operations including matrix sum and matrix product.

(Keywords)

Matrix sum, matrix product, identity matrix, square matrices, inverse matrix, transposed matrix.

(Further Topics)

Basic matrix operations, triangular matrices, real symmetric matrices, orthogonal matrices.

3. Gaussian elimination

The method of Gaussian elimination for solving systems of linear equations and for finding the rank of a matrix.

(Keywords)

Gaussian elimination, row operations, elementary matrices, rank and nullity of a matrix, calculation of inverse matrix.

4. Determinants

Basic properties and geometric interpretation of the determinant.

Calculation of determinants. The determinant and invertibility of matrices.

(Keywords)

Expansion of determinants, cofactors.

(Further Topics)

Permutations, Cramer's rule, cofactors and the inverse matrix, volume of parallelepipeds.

● **Notification**

This course uses the course withdrawal system. To withdraw from the course and obtain the grade Absent the student must submit a written Course Withdrawal Request before the end of November. After that time any student who participated in any part of the examination will be graded S, A, B, C or F.

Textbook	Otto Bretscher, Linear Algebra with Applications International Edition Prentice Hall, 2008. (504 pp., ISBN: 9780135128664)
Reference Book	

Fundamentals of Biology I

Registration code	0061311	Credits	2.0
Course Category	Basic Courses in Natural Sciences	Class room	C14
Term (Semester)/Day/Period	I (1st year 1st semester) / Mon / 3 (13:00~14:30)		
Instructor	CARTAGENA Joyce Abad		
Contact	Office: Rm. B508A, Building B, Graduate School of Bioagricultural Sciences Phone: 789-5209 / Mobile: 09082038167 (for emergency only) E-mail: joyce@agr.nagoya-u.ac.jp		
Office hours:	Wednesdays 3:00-6:00pm Fridays 3:00-6:00 pm *Email or call me for appointments outside office hours.		
Target Schools (Programs)	Sc(P · C · B) · En(P · C · Au) · Ag(B)		

Course objective:

The aim of this course is to introduce the key concepts of basic biology. In order to understand life, we have to understand the molecular processes that occur in and around cells, from energy procurement to reproduction and gene expression. Through such processes, living things go through evolution giving rise to biological diversity.

Course overview

I. THE LIFE OF THE CELL

1. Biology: Exploring Life
2. The Chemical Basis of Life
3. The Molecules of Cells
4. A Tour of the Cell
5. The Working Cell
6. How Cells Harvest Chemical Energy
7. Photosynthesis: Using Light to Make Food

II. CELLULAR REPRODUCTION AND GENETICS

8. The Cellular Basis of Reproduction and Inheritance
9. Patterns of Inheritance
10. Molecular Biology of the Gene
11. How Genes Are Controlled
12. DNA Technology and Genomics

III. CONCEPTS OF EVOLUTION

13. How Populations Evolve
14. The Origin of Species
15. Tracing Evolutionary History

IV. THE EVOLUTION OF BIOLOGICAL DIVERSITY

16. The Origin and Evolution of Microbial Life: Prokaryotes and Protists
17. Plants, Fungi, and the Colonization of Land
18. The Evolution of Invertebrate Diversity
19. The Evolution of Vertebrate Diversity

Course requirements:

Activity	Percentage of final grade
In-class participation (includes recitation/class discussions)	20
Quizzes (Q)	20
Homeworks (HW)	20
Examinations (E)	40

Grading scale

S: 90-100	C: 60-69
A: 80-89	F: <60 (Failure)
B: 70–79	

Course policies

1. Course webpage

Mastering Biology is an online system that will accompany the textbook for this course. Homeworks will be accessible through this page as well as learning tools that will be useful to better understand the concepts of Biology. Moreover, this webpage will also be used as a venue for us to communicate.

URL: <http://www.masteringbio.com/>

Course ID: MBCARTAGENA102013

2. Attendance

If you cannot attend class, you should contact me as soon as possible either by email or phone. Attendance will not be graded but missing class would mean missing possible points from recitation.

3. Make-up exam

Make-up exams may be given on condition that the student can provide acceptable reasons for his/her absence.

4. Personal electronics policy

Personal electronic devices should not be visible or audible during class time.

5. Academic honesty and original work

Cheating and copying (including plagiarism) will not be tolerated in this class.

6. Course Withdrawal

Students who wish to withdraw from the course will have to submit a duly accomplished Course Withdrawal Request by November 25, 2013.

Textbook	Campbell Biology Concepts and Connections International Edition 7/E + Mastering Biology Student Access Code Package ISBN: 9780132912440 (Components: 9780321761583 + 9780321709189)
Reference Book	

Fundamentals of Earth Science I

Registration code	0061411	Credits	2.0
Course Category	Basic Courses in Natural Sciences	Class room	S10
Term(Semester)/Day/Period	I (1st year 1st semester) / Mon / 4 (14:45~16:15)		
Instructor	HUMBLET Marc Andre		
Contact	Office: Graduate School of Environmental Studies Department of Earth and Planetary Sciences E516 Phone: 789-3037 E-mail: humblet.marc@f.mbox.nagoya-u.ac.jp		
Target Schools (Programs)	Sc(P · C · B) · En(P · C · Au) · Ag(B)		

- **Aim of the course**

The course “Fundamentals of Earth Science I” aims at giving the students a basic and up-to-date knowledge of the essential concepts of Earth Sciences. The course addresses such fundamental questions as: how did the Earth and other planets of the Solar System form?, what is the Earth composed of?, what are the main events in the evolution of life?, and how long does it take for geological processes to occur?

- **Content of the course**

1. Earth Sciences: historical perspective
2. The solar system
3. Plate tectonics
4. Minerals: rock’s elementary building blocks
5. Rocks and rock cycle I: igneous rocks
6. Rocks and rock cycle II: sedimentary rocks
7. Rocks and rock cycle III: metamorphic rocks
8. The age of rocks
9. Earth history I: paleogeography
10. Earth history II: origin and evolution of life

- **Practical classes**

The students will examine hand-size rock samples and rock thin sections chosen to illustrate the different rock types and geological structures seen during the course. In addition, the students will also participate in a one-day field trip to examine the geology of Mizunami area (Gifu Prefecture) and learn how geologists collect data in the field.

- **Grading**

Two quizzes (multiple choice): 20% (10% each)

Mid-term exam: 40%

Final exam: 40%

Students will be graded following the five-step S-A-B-C-F grade evaluation system.

S: 90-100%, A: 80-89%, B: 70-79%, C:60-69%, F: 59-0%

A student will be given an “Absent” grade if he or she submits a Course Withdrawal Request by the 15th of November. This deadline does not apply to students who drop the class part-way through for an exceptional reason (e.g. illness, accident).

Textbook	John Grotzinger, Understanding Earth 6/e (ISBN:9781429240031 or 9781429219518)
Reference Book	Diane Carlson, Physical Geology International Edition (ISBN:9780071221849)

International Society of Globalization Age

Registration code	0061511	Credits	2.0
Course Category	Liberal Education Courses in Humanities and Social Sciences	Class room	S11
Term(Semester)/Day/Period	I (1st year 1st semester) / Mon / 5 (16:30~18:00)		
Instructor	WESTRA Richard John		
Contact	Office: Room 308, School of Law Bldg Phone: 747-6466 E-mail: westrarj@law.nagoya-u.ac.jp		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C) · Ag(B)		

[purpose and aim of this class]

This class aims to introduce students to the topic of globalization. The main goal is to provide students with a non-specialized overview of the economic, financial, political and social tendencies of current globalization. Students will be exposed to debates over globalization as to its identifying features and positive or negative impacts for the human future. Students also examine the ideologies of globalization and will be encouraged to make assessments about globalization for their individual place in the world.

[related subject]

The study of globalization is necessarily interdisciplinary within the social sciences and will touch on questions of economics, politics, international law and sociology

[class contents]

What is globalization?

Is current globalization genuinely different from other periods in modern history of internationalization in our economic, political and social lives?

What are the main debates over current globalization?

Does globalization mean the end of states and borders?

What has happened to global trade?

What are the prospects for non or less –developed countries under globalization?

How does international “financialization” relate to globalization?

How does humanity benefit from globalization and how is it negatively impacted? And does it matter where one is in the world to either reap benefits from globalization or suffer its consequences?

Are there dominant sets of ideas which support globalization?

Is there an alternative to globalization?

[the way of evaluation, how to evaluate]

Mid-term test.....10%

Short take home essay.....10%

Class participation.....10%

Short final essay.....30%

Final exam.....40%

TOTAL.....100%

[notice for students]

This class is open to all students and will not presuppose prior acquaintance with the topic of globalization or economics, politics and social science studies. But students must be prepared to do some reading. And they must be prepared to follow detailed lectures. Students may withdraw from the course anytime before submitting the first assignment or test.

Textbook	Richard Westra, <i>The Evil Axis of Finance: The US-Japan-China Stranglehold on the Global Future</i> (Atlanta, GA: Clarity Press, 2012)
Reference Book	<p>Robert Albritton, Bob Jessop and Richard Westra (eds.) <i>Political Economy and Global Capitalism: The 21st Century, Present and Future</i> (London: Anthem, 2010).</p> <p>Richard Westra (ed.) <i>Confronting Global Neoliberalism: Third World Resistance and Development Strategies</i> (Atlanta, GA: Clarity Press, 2010).</p> <p>Richard Westra <i>Political Economy and Globalization: Frontiers of Political Economy Series</i> (London: Routledge, 2009).</p>

Japanese Language Seminar(Communication) I

Registration code	0062111	0062112	
Instructor	TOKUHIRO Yasuyo	HAIKANO Are	
Class room	A32	A33	
Contact	Phone	747-6557	747-6542
	E-mail	tokuhiro@ecis.nagoya-u.ac.jp	hajikano@ecis.nagoya-u.ac.jp
	Office	Room308 Education Center for International Students	
Term(Semester)/Day/Period	I (1st year 1st semester) / Tue,Thu,Fri / 1 (8:45~10:15)		
Course Category	Language and Culture I	Credits	3.0
Target Schools (Programs)	L(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		
<p>●Course Aims This course aims to provide a basic knowledge of Japanese which will enable students to function effectively in everyday life. It emphasizes oral practice utilizing the material students learned in Integrated Japanese 1. This course also aims to cover reading and writing of simple sentences. The textbooks are the same as Integrated Japanese 1.</p> <p>●Course Prerequisites Students are required to take a placement test before the beginning of the Fall semester. The course level is decided upon in consultation with teachers. Those students who register for this course should also register for Integrated Japanese 1 in the same semester.</p> <p>●Course Content ①Each lesson will cover grammar, expressions and vocabulary learned in Integrated Japanese 1 and practiced in short skits. Reading and writing are also covered. A short test will be given each lesson. ②Students are required to read textbooks (especially "Elementary Japanese 1 DAICHI Translation of the Main Text and Grammar Notes") as preparation for each lesson.</p> <p>●Course Evaluation Methods Attendance 30%, Class Participation 30%, Mid-term Examination 20%, Final examination 20%</p> <p>●Notice for Students Students must maintain course attendance rates of 80% or higher and are required to take mid-term and final examinations. Those who fail to meet these requirements will not earn credits. In general, in the case of absence, make-up tests and examinations will not be possible (except in the case of serious extenuating circumstances). Three late arrivals or early departures of 15 minutes or more will be regarded as a one-lesson absence.</p>			
Textbook	1. 『日本語初級 1 大地 メインテキスト』 スリーエーネットワーク Elementary Japanese 1 DAICH Main Text 2. 『日本語初級 1 大地 文型説明と翻訳<英語版>』 スリーエーネットワーク Elementary Japanese 1 DAICH Translation of the Main Text and Grammar Notes 3. 『日本語初級 1 大地 基礎問題集』 スリーエーネットワーク Elementary Japanese 1 DAICH Work 4. 『Write Now! Kanji for Beginners』 スリーエーネットワーク		
Reference Book			

Fundamentals of Physics I&II

Registration code	I-0062211 / II-0064211		Credits	4.0
Course Category	Basic Courses in Natural Sciences		Class room	Tue-GSID Lec.3 / Thu-S30
Term(Semester)/Day/Period	I (1st year 1st semester) / Tue, Thu / 2 (10:30~12:00)			
Instructor	FOONG See Kit	WOJDYLO John Andrew	GELLOZ Bernard Jacques	
Contact	Office	ES420 [ES Building]	Science Hall 5F 517	Eng.Bld3,North wing 431
	Phone	052-789-2861	052-789-2307	052-789-4202
	E-mail	skfoong@eken.phys.nagoya-u.ac.jp	john.wojdylo@s.phys.nagoya-u.ac.jp	gelloz@nuap.nagoya-u.ac.jp
Office Hours	TBA			
Target Schools (Programs)	Sc(P · C · B) · En(P · C · Au) · Ag(B)			

Fundamentals of Physics I (Classical Mechanics I)

Course Aims: This course is the first of a series of four courses that cover all the main topics in basic classical physics to help students gain a strong foundation for further courses in science and engineering. It introduces the basic concepts and laws of classical mechanics. Problem solving involving the applications of the concepts and laws will be discussed. The topics include force, motion, energy, work and momentum.

Course Pre-requisite and Other Requirements: Although no pre-requisite is required, students without a good background in high school physics and basic calculus are required to attend additional lectures (the details will be announced on first day of class), and are expected to have to spend more time and effort for the course. You are advised to take this into consideration when deciding your course load. Concurrent registrations for Fundamentals of Physics II and Fundamental Physics Tutorial I are required. Students are expected to participate actively in class throughout the course.

Course Contents

Chapter 1: Measurement

Chapter 2: Motion Along a Straight Line

Chapter 3: Vector

Chapter 4: Motion in Two and Three Dimensions

Chapter 5: Force and Motion I

Chapter 6: Force and Motion II

Chapter 7: Kinetic Energy and Work

Chapter 8: Potential Energy and Conservation of Energy

Chapter 9: Center of Mass and Linear Momentum

Course Evaluation Methods:

Class attendance:10% Assignment:10% Mid-Term Exam:30% Final Exam:50%

Class attendance is required. Absentee must give a valid written reason. A student will be regarded as ABSENT if his attendance of lecture is below 75% or he is absent without valid reason from any scheduled exams.

Notice for Students: You need to gain competency in calculus (differentiation and integration), and are encouraged to take Calculus I concurrently.

Fundamentals of Physics II (Classical Mechanics II and Thermal Physics)

Aim of the course

Physics is at the foundation of science and engineering. This is the second of a series of four courses that cover the fundamentals of physics. The first 2/3 of this course covers further topics in mechanics: equilibrium and elasticity, gravitation, fluids, oscillations and the remaining 1/3 of the course introduces thermal physics. Besides learning to solve problems within each topic, students will also learn to solve problems that cut across these topics.

Pre-requisite and other requirements:

- To take Fundamentals of Physics II, you must also enroll in Fundamentals of Physics I. (You cannot study Fundamentals of Physics II without taking Fundamentals of Physics I first.)
- Note that this course commences **after** Fundamentals of Physics I; nevertheless, you must register for it during the normal registration period in the first few weeks of semester.
- Concurrent registration for Fundamental Physics Tutorial I is required. This is the same tutorial as for Fundamentals of Physics I.
- Students are expected to participate actively in class activities throughout the course. Students without a good background in high school physics and basic calculus are expected to have to spend more time in this course, and are advised to take this into consideration when deciding their course load.

Contents

Chapter 10: Rotation

Chapter 11: Rolling, Torque, and Angular Momentum

Chapter 12: Equilibrium

Chapter 13: Gravitation

Chapter 14: Fluids

Chapter 15: Oscillations

Chapter 18: Temperature, Heat, and the First Law of Thermodynamics

Chapter 19: The Kinetic Theory of Gases

Chapter 20: Entropy and the Second Law of Thermodynamics

Expected Learning Outcomes: Students gain a functional understanding of introductory mechanics and thermal physics. They are able to solve problems that may cut across the topics, and are able to appreciate the physics underlying their studies in other science and engineering disciplines. They are prepared for the next course in the series: Fundamentals of Physics III.

Grading

Class attendance is required. Absentees must give a valid reason (e.g. doctor's certificate).

The "Absent" grade is reserved for students who withdraw by November 16. After that day, a letter grade will be awarded based on marks earned from all assessment during the semester.

Class attendance: 5%; Assignments: 15%; Intermediate tests: 40%; Final Exam: 40%

Related courses: Calculus I, Calculus II, Linear Algebra I, Linear Algebra II, Fundamentals of Physics I, III & IV.

Textbook	Fundamentals of Physics Extended 9th Edition International Student Version with Wiley PLUS Set (John Wiley & Sons, 2010 ISBN:9780470576083)
Reference Book	Feynman Lectures On Physics (Vol.1) by Richard Phillips Feynman (Pearson P T R)

Academic English Advanced I

Registration code	0062311	Credits	2.0
Course Category	Language and Culture I	Class room	A32
Term(Semester)/Day/Period	I (1st year 1st semester) / Tue / 3 (13:00~14:30)		
Instructor	JARRELL Douglas S.		
Contact	Office: Central Building for Liberal Arts and Sciences, Lecturers' Room Phone: Ext. 7655 Email: djnucourses@gmail.com		
Target Schools (Programs)	L(S) • Ec(S) • Ag(B)		

Course Aims

The purpose of this course is to develop students' written academic English skills. The course aims to teach students how to use common moves in academic writing in order to engage their readers. The focus will be on academic discourse as a conversation rather than as a one-way presentation of the writer's ideas.

Course Prerequisites

None

Course Content

In this course, students will study various moves in academic writing and analyze pieces of writing from a variety of fields, for academic and more general audiences. During the course, they will be expected to discuss their analyses and regularly produce short passages that utilize the templates in the book.

Course Evaluation Methods

Written work 70%, participation 30%.

Notice for Students

There are many differences in academic writing depending on the particular academic field. Students are encouraged to look at writing in their own academic field after learning the moves in the book.

Text Book	"They Say, I Say" The Moves That Matter in Academic Writing
Reference Book	None

Open Courses (Mathematics Tutorial I)

Registration code	0062411	Credits	2.0
Course Category	Open Courses	Class room	A-407 (Sc(S))
Term (Semester)/Day/Period	I (1 st year 1 st semester) /Tue/4 (14:45~16:15)		
Instructor	RICHARD Serge Charles	HERBIG Anne-Katrin	
Target Schools (Programs)	L(S) · Ec(S)		
Course Purpose			
<p>The aim of this course is to provide essential mathematical knowledge necessary to further study mathematics and other sciences at university level. After completing the course the student should be familiar with basic mathematical concepts. In particular, the student should be able to draw graphs and solve simple equations.</p>			
Course Contents			
<ol style="list-style-type: none"> 1. Basic mathematical concepts: sets, subsets, union and intersection; functions, function composition and inverse functions. 2. Numbers: natural numbers, integers, rational numbers and real numbers. 3. Geometry: the real line, the Cartesian plane and three-dimensional space; lines and curves in the plane. 4. Elementary functions: polynomials, trigonometric, exponential and logarithm; drawing graphs and solving equations. 5. Introduction to differentiation: derivatives of elementary functions, product rule and chain rule. 6. Introduction to integration: integrating elementary functions. 			
Grading			
<p>Grades will be determined based on four assessed courseworks, each of them marked out of 25. The grading scale will be S: 90-100, A: 80-89, B: 70-79, C: 60-69, F:0-59. Attendance is mandatory. A student who misses three or more classes will automatically fail the course and receive the grade F.</p>			
Course Withdrawal		Criteria for “Absent” & “Fail” Grades	
<p>To withdraw from the course and obtain the grade Absent, a written Course Withdrawal Request must be submitted before the end of November.</p>		<p>Anyone who submits at least one assessed coursework and does not withdraw from the course will be graded S, A, B, C or F.</p>	
Prerequisite		Related Courses	
<p>High-School level Mathematics</p>		<p>Calculus I, Linear Algebra I</p>	
Text Book			
Reference Book	<p>James Stewart, Single Variable Essential Calculus, Early Transcendentals, International Edition, Cengage Learning, 2006. ISBN 9780495556206</p>		
Remarks	<p>It is strongly recommended to register also to Calculus 1 and Linear Algebra 1.</p>		

German 1

Registration code	0022501	Credits	1.5
Course Category	Language and Culture I	Class room	S12
Term(Semester)/Day/Period	I (1st year 1st semester) / Tue / 5 (16:30~18:00)		
Instructor	IMAIDA Ayumi		
Contact	Office: Central Building for Liberal Arts and Sciences, Lecturers' Room Phone: Ext. 7655		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

(Course goal and objectives)

The goal of this course is for students to master listening, speaking, reading, and writing skills in a balanced and integrated manner. This course also tries to deepen the understanding of students toward the society, culture, and perspectives and daily life in the German-speaking world.

(Course content)

The goal of this course is to enable students to understand the grammatical structure peculiar to German through many practice exercises and to acquire the grammatical knowledge fundamental to speak in German through the oral practices with partners using the basic sentence pattern and key phrases learned in each lesson and the listening exercise by CD.

The following are the topics covered in the course

1. Introducing yourself : personal pronouns, conjugation of present indicative and word order (declarative statements and questions)
2. doing shopping : noun gender and declension (1·4 case)
3. asking the belongings : plural forms of nouns, declension(3·2 case)
4. asking the favorite things : conjugation of present indicative of irregular verb
5. asking about the family : articles (definite article / indefinite article)
6. asking the schedule : prepositions governing cases, Separable verbs

(Evaluation method)

Short tests: 50%

Final: 50%

Students whom who are absent from more than five classes, or do not sit the final examination will be graded as 'absent'.

(Notes)

The dictionary must be brought to class.

Textbook	前田、Buechli、今井田共著「Schritt fuer Schritt (シュリット・フュア・シュリット)」 MAEDA, Buechli, IMAIDA. Schritt fuer Schritt
Reference Book	Reference material will be introduced when necessary.

French 1			
Registration code	0022502	Credits	1.5
Course Category	Language and Culture I	Class room	S13
Term(Semester)/Day/Period	I (1st year 1st semester) / Tue / 5 (16:30~18:00)		
Instructor	IINO Kazuo		
Contact	Office: Integrated Research Building for Humanities and Social Sciences, 5 th Floor, Room 507 Phone: 789-5351		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		
For information on syllabus, please go to the following address. http://www.kyoiku-in.nagoya-u.ac.jp/syllabus2013/201211/syllabus/20130022502.html			

Russian 1			
Registration code	0022503	Credits	1.5
Course Category	Language and Culture I	Class room	S14
Term(Semester)/Day/Period	I (1st year 1st semester) / Tue / 5 (16:30~18:00)		
Instructor	YANAGISAWA Tamio		
Contact	Office: Integrated Research Building for Humanities and Social Sciences, 5th Floor, Room 503 Phone: 789-5548 E-mail: k46413a@nucc.cc.nagoya-u.ac.jp		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		
For information on syllabus, please go to the following address. http://www.kyoiku-in.nagoya-u.ac.jp/syllabus2013/201211/syllabus/20130022503.html			

Spanish 1

Registration code	0022505	Credits	1.5
Course Category	Language and Culture I	Class room	S16
Term(Semester)/Day/Period	I (1st year 1st semester) / Tue / 5 (16:30~18:00)		
Instructor	FUTAMURA Hisanori		
Contact	Office: Central Building for Liberal Arts and Sciences, Lecturers' Room Phone: Ext. 7655 E-mail: hutamura.hisanori@sepia.plala.or.jp		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

(Course goal and objectives)

This course is mainly for students who started studying Spanish in the fall semester of the first year. The goal of the course is for students to develop the basic skills to understand and use Spanish. Spanish 1 and Spanish 2 form a series, and the two instructors conduct intensive lectures using the same textbook. For the fall semester, when students start their studies, the goal is for students to first acquire an overall view of Spanish, centered on basic grammar, during the relatively short period of initial study.

(Course prerequisites, related courses, etc.)

All undergraduate schools

Spanish 1 (Tuesday, period 5) and Spanish 2 (Friday, period 5) form a series. Students should take both courses.

(Course content)

Spanish 1 and 2

Both Spanish 1 and Spanish 2 are taught using the same textbook, Excerente! Therefore, instruction is provided twice a week using the same text. The following are the main topics covered in the course

Chapter 1:Pronunciation and name of the letters, alphabet, vowels, consonants, rules on accents

Chapter 2:Vocabulary: words that are declined and those that are not, nouns masculine and feminine, singular and plural forms

Chapter 3:Nominative case of personal pronouns, ser and estar ; adjectives; demonstrative pronouns, and grammatical agreement

Chapter 4:Use of ser verb: affirmative and negative questions and negative sentences, question words, time expressions A, possessive adjectives

Chapter 5:Use of estar verb: preposition/adverbs, hay sentences expressing existence, comparative and superlative I (regular form) The class ends with a look at the basics of the declination of nouns and adjectives.

* The mid-term test will be given after completing chapter 5.

Chapter 6:Types of verbs, indicative present: regular conjugation; time expressions B; direct objects, use of pronouns; word order

Chapter 7:Indirect objects: use of pronouns and word order; verbs that take indirect objects; indicative present of gustar verb Types of irregular verbs; irregular A) type: special conjugation

Chapter 8:Reflexive verbs, reflexive use of pronouns, se passive, second person, irregular inflection Types of irregular verbs; irregular A) type: special conjugation

The course will also fully cover the use of verbs and all types of objective pronouns.

(Evaluation method)

1) Attendance: As a general rule, students may miss class no more than three times.

2) Mid-term test (expected to cover text through chapter 4): 40%

3) Final: 50%

4) Participation (exercises during class, homework, etc.) 10%

Course withdrawal permitted.

(Notes)

Students should watch for announcements posted at various locations such as the bulletin board located in front of the Office of the Institute of Liberal Arts and Sciences.

Textbook	Photocopies (Prototype materials) will be distributed. 試作のプリントを配布
Reference Book	Spanish-Japanese Dictionary Separate material: Grammar supplements and vocabulary list

Chinese 1			
Registration code	0022504	Credits	1.5
Course Category	Language and Culture I	Class room	S15
Term(Semester)/Day/Period	I (1st year 1st semester) / Tue / 5 (16:30~18:00)		
Instructor	TERASAWA Tomomi		
Contact	Office: Central Building for Liberal Arts and Sciences, Lecturers' Room Phone: Ext. 7655 E-mail: mei1213@hotmail.com		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		
For information on syllabus, please go to the following address. http://www.kyoiku-in.nagoya-u.ac.jp/syllabus2013/201211/syllabus/20130022504.html			

Korean 1			
Registration code	0022506	Credits	1.5
Course Category	Language and Culture I	Class room	S17
Term(Semester)/Day/Period	I (1st year 1st semester) / Tue / 5 (16:30~18:00)		
Instructor	ARAI Keiko		
Contact	Office: Central Building for Liberal Arts and Sciences, Lecturers' Room Phone: Ext. 7655		
Target Schools (Programs)	L(S) · Ec(S) · S(P · C · B) · En(P · C · Au) · Ag(B)		
For information on syllabus, please go to the following address. http://www.kyoiku-in.nagoya-u.ac.jp/syllabus2013/201211/syllabus/20130022506.html			

First Year Seminar A

Registration code	0063211	Credits	2.0
Course Category	First Year Seminar	Class room	C30
Term(Semester)/Day/Period	I (1st year 1st semester) / Wed / 2 (10:30~12:00)		
Instructor	DOI Yasuhiro (Associate Professor at SOEC)		
Contact	Office: Economics Building 318 E-mail: will be informed at the class.		
Target Schools (Programs)	L(S) · Ec(S)		

(Purpose and Aim of This Class)

To study social sciences, it is necessary to understand social problems and analyze them. In this first year seminar students have to pick up one particular social problem and make a presentation in a manner of the social science. Students study how to use data, academic method and also how to make a presentation.

(Course Prerequisites)

None

(Class Contents)

At first students study the frameworks of the presentation and the research.
Each student has to make a 30 Min presentation of a topic which he/she chooses.

(The Way of Evaluation, How to evaluate)

Attendance and Evaluation of their presentation

Students who decide to withdraw from the course should inform me in writing by November 25th, and provide me with a copy of the designated form ("Course Withdrawal Request").

(Notice for Students)

Please find a topic which you are interested in the most in our society and try to explain the mechanism and the main factor of the problem clearly.

Any selected topic will be accepted to give a presentation, even the instructor is from the School of Economics and advices mainly from the view point of the economics.

Textbook	None
Reference Book	None

First Year Seminar A			
Registration code	0063212	Credits	2.0
Course Category	First Year Seminar	Class room	C31
Term(Semester)/Day/Period	I (1st year 1st semester) / Wed / 2 (10:30~12:00)		
Instructor	HUMBLET Marc Andre		
Contact	Office: Graduate School of Environmental Studies Department of Earth and Planetary Sciences E516 Phone: 789-3037 E-mail: humblet.marc@f.mbox.nagoya-u.ac.jp		
Target Schools (Programs)	Sc(P · C · B) · En(P · C · Au) · Ag(B)		
Introduction to reef Geology			
<ul style="list-style-type: none"> ● Aim of the seminar Underwater sceneries of breathtaking beauty and images of paradisiac islands is what generally comes to mind when people think about tropical coral reefs. But reefs represent much more than that. They have not always looked the way they look today. They have evolved during the course of Earth history. Even today, there exist many examples of aggregation of marine organisms other than tropical coral reefs. Moreover, each individual coral reef can tell us fascinating stories about how the Earth environment evolved in the past and help us understand the future of our planet. This seminar is divided into two parts. During the first part, the students will learn about the different kinds of reefs that exist, the characteristics of coral reef ecosystems, the factors controlling coral reef growth, and how coral reefs can be used to reconstruct sea level change. Students will also be able to examine hand-sized samples of coral reef limestones and observe thin sections under the microscope. During the second part of the seminar, the students will give two oral presentations about any scientific subjects of their choice related to the marine world, and discussions will be conducted about these subjects. ● Content of lectures <ol style="list-style-type: none"> 1. Introduction: what is a reef? 2. The biology of coral reef ecosystems 3. Life and death of coral reefs 4. Coral reefs and sea level 5. What future for coral reefs? ● Grading There is no written examination. The grading is based on class participation (30%) and oral presentations (70%). Students will be graded following the five-step S-A-B-C-F grade evaluation system. S: 90-100%, A: 80-89%, B: 70-79%, C:60-69%, F: 59-0% A student will be given an “Absent” grade if he or she submits a Course Withdrawal Request by the 15th of November. This deadline does not apply to students who drop the class part-way through for an exceptional reason (e.g. illness, accident). 			
Textbook	None		
Reference Book	None		

First Year Seminar A

Registration code	0063213	Credits	2.0
Course Category	First Year Seminar	Class room	C32
Term(Semester)/Day/Period	I (1st year 1st semester) / Wed / 2 (10:30~12:00)		
Instructor	BUTKO Peter		
Contact	Office: SA Building-318-1 (Science & Agriculture) Phone: 789-2480 E-mail: pbutko@chem.nagoya-u.ac.jp		
Target Schools (Programs)	Sc(P · C · B) · En(P · C · Au) · Ag(B)		

Course Purpose

The purpose of this course is to teach principles of good science practice and to raise awareness of, and interest in, current issues in our civilization. Students will learn to search information, interpret it, and present it in open forum.

Course Contents

1. General introduction; the course policies; advice on literature search and citing references; dividing students into groups and advice on working in groups
2. The use of insecticidal toxins from *Bacillus thuringiensis* (lecture)
3. Water, water everywhere... and its effect on biophysical interactions and biochemical reactions (lecture)
4. Water—structure of the molecule; physical properties; chemical properties; significance for life; significance for industry (student group presentations)
5. Biotechnology—pros and cons (student group presentations)
6. Nuclear energy—pros and cons (student group presentations)
7. Space exploration—pros and cons (student group presentations)
8. Oil—its past, present, and future (student group presentations)
9. Nanotechnology—what it is and what it is for (student group presentations)
10. Global warming and its predicted consequences (student group presentations)
11. How the “greenhouse gases” warm up the Earth (student group presentations)
12. Evolution in nature and in technology (student group presentations)
13. Deadly inventions, mad scientists, and other monsters—the portrayal and use of science in the arts (literature, painting, drama, film, TV) (student group presentations)
14. Science without borders—historical contributions of various cultures/nations to the modern science (student group presentations)
15. Chemistry and alchemy—scientific vs. non-scientific methods of acquiring knowledge (general discussion)

<p>Grading</p> <p>Group presentations: 70. Participation in discussion: 30. TOTAL: 100.</p> <p>Grade "S": 100-90% (450 or more points), "A": 89-80% (449 - 400 pts), "B": 79-70% (399 - 350 pts), "C": 69-60% (349 - 300 pts), "F": 59-0% (below 300 pts).</p>	
<p>Course Withdrawal</p> <p>Yes. The last day to withdraw without academic penalty is November 27, 2013.</p>	<p>Criteria for “Absent” & “Fail” Grades</p> <p>The “Absent” grade is reserved for students that withdraw by November 27, 2013. After that day, a letter grade will be awarded based on grades earned from all assignments during the semester.</p>
<p>Prerequisite</p> <p>None</p>	<p>Related Courses</p>
<p>Textbook</p>	<p>None</p>
<p>Reference Book</p>	<p>None</p>
<p>Remarks</p>	<p>Attendance: Attendance is necessary for successful completion of this course. No points will be awarded for attending lectures, but attendance will be taken. It is absolutely essential to participate in class discussions.</p> <p>Cell phones must be turned off during lecture.</p>

First Year Seminar A

Registration code	0063214	Credits	2.0
Course Category	First Year Seminar	Class room	C36
Term(Semester)/Day/Period	I (1st year 1st semester) / Wed / 2 (10:30~12:00)		
Instructor	DEMONET Laurent		
Contact	Office: School of Science, Building A, Room 329 Phone: 789-5571 E-mail: demonet@math.nagoya-u.ac.jp		
Target Schools (Programs)	Sc(P · C · B) · En(P · C · Au) · Ag(B)		
Use of mathematics in Science			
<p>Aims of the seminar The aims of this seminar are to understand scientific methods and to develop public speech abilities. More precisely, we will focus on the good use of mathematics in science. From twice to four times in the semester, each student will choose a text to study in a provided list and prepare a short presentation about this text and its interpretation. Most of the time, it will require the research of information in external sources (Internet / books). The remaining part will consist in a discussion (involving all the students) about the presentation and the topic.</p> <p>Course Prerequisites Basic mathematics from high school.</p> <p>Course Content The content will consist of scientific texts using mathematical tools.</p> <p>Course Evaluation Methods There is no written examination. The grading is based on class participation (30%) and oral presentations (70%). The final grade will be determined by the total amount of points obtained according to the following scale: S: 90-100, A: 80-89, B: 70-79, C: 60-69, F:0-59.</p>			
Textbook	None		
Reference Book	Provided texts		

Fundamentals of Chemistry I																			
Registration code	0063311	Credits	2.0																
Course Category	Basic Courses in Natural Sciences	Classroom	A21																
Term (Semester)/Day/Period	I (1st year 1st semester) / Wed / 3 (13:00 – 14:30)																		
Instructor	BUTKO Peter																		
Contact	Office: SA Building-318-1 (Science & Agriculture) Phone: 789-2480 E-mail: pbutko@chem.nagoya-u.ac.jp																		
Target Schools (Programs)	Sc(P · C · B) · En(P · C · Au) · Ag(B)																		
Course Purpose																			
The purpose of this course is to grasp what chemistry is all about and is to learn important principles and facts in chemistry. The course begins with atomic structure, proceeds next to bonding and molecules, and moves then to bulk physical properties of substances.																			
Course Contents																			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1 Chemistry: Matter and Measurement (Ch. 1)</td> <td style="width: 50%;">9 Thermochemistry: Chemical Energy (Ch. 8)</td> </tr> <tr> <td>2 Atoms, Molecules and Ions (Ch. 2)</td> <td>10 Pre-exam Review & EXAM 2 (Chs. 5 – 8)</td> </tr> <tr> <td>3 Mass Relationships in Chemical Reactions (Ch. 3)</td> <td>11 Gases: Their Properties and Behavior (Ch. 9)</td> </tr> <tr> <td>4 Reactions in Aqueous Solutions (Ch. 4)</td> <td>12 Liquids, Solids, and Phase Changes (Ch. 10)</td> </tr> <tr> <td>5 Pre-exam Review & EXAM 1 (Chs. 1 – 4)</td> <td>13 Solutions and Their Properties (Ch. 11)</td> </tr> <tr> <td>6 Periodicity & the Electronic Structure of Atoms (Ch. 5)</td> <td>14 Pre-final Review</td> </tr> <tr> <td>7 Ionic Bonds & Some Main-Group Chemistry (Ch. 6)</td> <td>15 FINAL EXAM (Chs. 1 – 11)</td> </tr> <tr> <td>8 Covalent Bonds and Molecular Structure (Ch. 7)</td> <td></td> </tr> </table>				1 Chemistry: Matter and Measurement (Ch. 1)	9 Thermochemistry: Chemical Energy (Ch. 8)	2 Atoms, Molecules and Ions (Ch. 2)	10 Pre-exam Review & EXAM 2 (Chs. 5 – 8)	3 Mass Relationships in Chemical Reactions (Ch. 3)	11 Gases: Their Properties and Behavior (Ch. 9)	4 Reactions in Aqueous Solutions (Ch. 4)	12 Liquids, Solids, and Phase Changes (Ch. 10)	5 Pre-exam Review & EXAM 1 (Chs. 1 – 4)	13 Solutions and Their Properties (Ch. 11)	6 Periodicity & the Electronic Structure of Atoms (Ch. 5)	14 Pre-final Review	7 Ionic Bonds & Some Main-Group Chemistry (Ch. 6)	15 FINAL EXAM (Chs. 1 – 11)	8 Covalent Bonds and Molecular Structure (Ch. 7)	
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8 Covalent Bonds and Molecular Structure (Ch. 7)																			
Grading																			
Two Exams: 100 points each. Final Exam (comprehensive): 200. Homework: 50. TOTAL: 450. Grade "S": 100-90% (405 or more points), "A": 89-80% (404 - 360 pts), "B": 79-70% (359 - 315 pts), "C": 69-60% (314 - 270 pts), "F": 59-0% (fewer than 270 pts).																			
Course Withdrawal		Criteria for "Absent" & "Fail" Grades																	
Yes. The last day to withdraw without academic penalty is November 27, 2013.		The "Absent" grade is reserved for students that withdraw by November 27, 2013. After that day, a letter grade will be awarded based on grades earned from all assignments during the semester.																	
Prerequisite		Related Courses																	
None																			
Textbook	J. McMurry and R.C. Fay: Chemistry, 6th Ed. (International Edition, bundled with Mastering Chemistry), Prentice Hall, 2012																		
Reference Book																			

Remarks	<p>It is essential to sit in each exam during the scheduled class time. There will be NO make-up exam. In the event of a missed exam due to a serious illness, accident or family emergency, compelling written documentation of the reason for the absence will be required. If the reason is accepted, the final grade will be calculated from the appropriately weighted average from the rest of the exams. If the reason will be deemed insufficient, the absence will be unexcused, and zero points will be awarded for the missed exam.</p> <p>WARNING: Missing more than one exam (it does not matter whether excused or not) means automatically failing the course.</p> <p>Attendance is necessary for successful completion of this course. No points will be awarded for attending lectures, but attendance may be taken. Sleeping in the lecture hall will be actively discouraged.</p> <p>Homework is crucial for mastering new material and developing skills in applying concepts. Weekly homework will be either on paper or electronic. Homework is due at the beginning of class on the due date. A general guideline says an average of 2 to 3 hours of study time per week is necessary for each 1 credit hour.</p> <p>Exams focus on problem solving, and exam questions will be similar to the homework problems. Exam grades will be posted in the Gradebook on the Course website before next class period.</p> <p>Cell phones must be turned off during lecture.</p>
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Advanced Japanese (Written Presentation) 2

Registration code	0044112	Credits	2.0
Course Category	Language and Culture II	Class room	C11
Term(Semester)/Day/Period	I (1st year 1st semester) / Thu / 1 (8:45~10:15)		
Instructor	UKIBA Masachika		
Contact	Office: Education Center for International Student, Room 403 Phone: 789-5771		
Target Schools (Programs)	L(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

(本授業の目的およびねらい)

これまで学んだ日本語（文章表現）をふまえ、より高度な読解力・文章表現力の向上をめざす。さまざまなテーマを扱った文献の正確な読み取りと、それを通じて日本社会の諸相に関する理解を深める。レポート及び論文作成のための、論理的な文章の書き方を学習する。

(履修条件あるいは関連する科目等)

特になし

(授業内容)

- 1) 日本社会・日本文化に関するトピックの学習
- 2) 参考資料・文献を読み、内容を要約する。
- 3) 参考資料・文献を引用しながら、自分の意見を付け加える。
- 4) 本の内容を紹介するレポートを作成する。(A4・3枚程度)

(成績評価の方法)

平常点およびレポート

(注意事項)

- 30分以上の遅刻は欠席とみなす。
- 5回以上授業を欠席した場合は「欠席」とみなす。

Textbook	特になし
Reference Book	戸田山和久『論文の教室ーレポートから卒論まで』NHKブックス 佐渡島沙織・吉野亜矢子『これから研究を書くひとのためのガイドブック』ひつじ書房

Biotechnology

Registration code	0064311	Credits	2.0
Course Category	Liberal Education Courses in Natural Sciences	Class room	A21
Term (Semester)/Day/Period	I (1st year 1st semester) / Thu / 3 (13:00~14:30)		
Instructor	CARTAGENA Joyce Abad		
Contact	Office: Rm. B508A, Building B, Graduate School of Bioagricultural Sciences Phone: 789-5209 / Mobile: 09082038167 (for emergency only) E-mail: joyce@agr.nagoya-u.ac.jp		
Office hours	Mondays 4:00-6:00pm Tuesdays 4:00-6:00pm Fridays 3:00-6:00 pm *Email or call me for appointments outside office hours.		
Target Schools (Programs)	L(S) • Ec(S) • Sc(P • C • B) • En(P • C • Au) • Ag(B)		

Course objectives:

1. To provide basic knowledge on biological processes that will help students understand the science behind the technologies
2. To present examples of actual technology used in the industry
3. To discuss the benefits and drawbacks of Biotechnology to humanity and the environment
4. To provide a venue for students to express their opinions regarding the issues related to Biotechnology

Course overview

Lesson	Topic
1	I. Introduction: The nature of Biotechnology 1. Basic Science of Biotechnology (Suggested Readings: Biotechnology 101 pp.19-55; Intro to Biotech Ch. 1 & 2)
2	2. Technologies and Tools in Biotechnology I (Suggested Readings: Guide to Biotech p.18-22; Intro to Biotech Ch. 3; Biotechnology 101 pp. 119-146)
3	3. Technologies and Tools in Biotechnology II (Suggested Readings: Intro to Biotech Ch. 4)
4	II. Products of Biotechnology: 1. Microbial Biotechnology (Suggested Readings: Intro to Biotech Ch. 5)
5	2. Plant and Animal Biotechnology (Suggested Readings: Intro to Biotech Ch. 6 & 7)
6	3. Aquatic Biotechnology and Bioremediation (Suggested Readings: Intro to Biotech Ch. 9 & 10)
7	4. DNA Fingerprinting and Forensic Analysis (Suggested Readings: Intro to Biotech Ch. 8)
8	5. Medical Biotechnology (Suggested Readings: Intro to Biotech Ch. 11)
9	III. Biotechnology Regulations (Suggested Readings: Intro to Biotech Ch. 12)
10	IV. Ethics and Biotechnology (Suggested Readings: Intro to Biotech Ch. 13)

Course requirements:

Activity	Percentage of final grade
In-class participation (includes recitation/class discussions)	30
Group presentation	20
In-class work/homework	15
Quizzes	10
Examination	25

Grading scale

S: 90-100	C: 60-69
A: 80-89	F: <60 (Failure)
B: 70-79	

Course policies

1. Course webpage

NUCT (Nagoya University Collaboration and Course Tools) is an online system that will be used for this course. Homeworks will be accessible through this page as well as extra learning materials that I will be uploading. Moreover, this webpage will also be used as a venue for us to communicate. <https://ct.nagoya-u.ac.jp/portal>

2. Attendance

If you cannot attend class, you should contact me as soon as possible either by email or phone. Attendance will not be graded but missing class would mean missing possible points from recitation and in-class activities.

3. Make-up exam

Make-up exams may be given on condition that the student can provide acceptable reasons for his/her absence.

4. Personal electronics policy

Personal electronic devices should not be visible or audible during class time.

5. Academic honesty and original work

Cheating and copying (including plagiarism) will not be tolerated in this class.

6. Course Withdrawal

Students who wish to withdraw from the course will have to submit a duly accomplished Course Withdrawal Request by November 14, 2013.

Textbook	
Reference Books	Thieman, W. and Palladino, M. 2008. Introduction to Biotechnology, 2nd Edition, Benjamin Cummings. Shmaefsky, B.R. 2006. Biotechnology 101. Connecticut: Greenwood Press Pearson (http://wps.aw.com/bc_palladino_biotech_2/91/23335/5973872.cw/index.html)
Web links:	http://www.johnkyrk.com/index.html http://www.wwnorton.com/college/biology/discoverbio3/core/content/index/animations.asp http://www.biotechinstitute.org/students

Independent Thinking and Decision Making

Registration code	0064411	Credits	2.0
Course Category	Liberal Education Courses in Interdisciplinary Fields	Class room	Ace Lab S
Term(Semester)/Day/Period	I (1st year 1st semester) / Thu / 4 (14:45~16:15)		
Instructor	YOSHIDA Go		
Contact	Office: Room 737 (7th Floor), IB Bldg West Wing Phone: 747-6506 / Ext. 6506 (on-campus) E-mail: goyoshida@gmail.com		
Office hours	By appointment		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

“You can chain me, you can torture me, you can even destroy this body, but you will never imprison my mind.” — Mahatma Gandhi

“Each day we are given, we are presented with fresh opportunities to make choices that will either positively, neutrally, or negatively affect our future.”

Course Description

Whether it be deciding on which movie to rent, how to work things out with your obnoxious team member, or what career to pursue after graduation, our lives today are a result of the choices or decisions we made in the past. The decisions we make can be based on a number of factors, among them are the often used risk-reward analysis and choices based on values and priorities. In this class, we will examine how we naturally think and make decisions, through both theoretical and practical approaches, to enable better life decisions for both immediate and long term results.

Desired Learning Outcomes

1. Developing a broader understanding of the self
2. Developing an understanding of how we naturally think and make decisions
3. Ability to think clearly and independently
4. Ability to work in groups with broader awareness
5. Ability to make purposeful decisions

Grading

Written Assignments	40%
Group Project	40%
Peer Review	20%

Textbook

- 1) Bach, Richard, Jonathan Livingston Seagull (Scribner; February 2006).
- 2) Emerson, Ralph Waldo, Self-Reliance (The Domino Project; May 2011).
- 3) Powers, Marcia, The Dragon Slayer With a Heavy Heart: A Powerful Story About Finding Happiness and Serenity...Even When You Really, Really Wish Some Things Were Different (Wilshire Book Co.; December 2003).

Calculus I

Registration code	0064511	Credits	2.0
Course Category	Basic Courses in Natural Sciences	Class room	C14
Term(Semester)/Day/Period	I (1st year 1st semester) / Thu / 5 (16:30~18:00)		
Instructor	HERBIG Anne-Katrin		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

● **Aim of the course :**

Analysis is the field of mathematics that describes and analyzes quantitative change and the central method is differential and integral calculus. These methods are indispensable research techniques in natural science, and recently, have found increasing application also in social sciences. The aim of the first half of this one-year course is to furnish students with a solid understanding of single variable calculus. Emphasis is placed on the concept of limit along with the elementary functions (logarithmic, exponential, and trigonometric functions).

● **Prerequisites :**

Some basic familiarity with calculus from high school is assumed, including differentiation and integration of polynomial functions.

● **Outline of lectures :**

The standard outline of lectures is given below, but content may vary depending on the instructor and the class.

1. Limits and continuity

Basic properties of limits of sequences and functions.

Continuous functions and their basic properties.

(Keywords)

Limits of sequences and functions.

Convergence of bounded monotonous sequences. Basic properties and applications of continuous functions.

(Further Topics)

Completeness of the real numbers, convergence and convergence tests, ϵ - δ definition of limit.

2. Single variable differentiations

Basic properties of the derivative and its analytic, geometric, and physical interpretation. Maximum and minimum of differentiable functions.

(Keywords)

Definition and geometric interpretation of the derivative, derivatives of the elementary functions and their inverses, the mean value theorem, higher derivatives and Taylor's theorem, l'Hospital's rule.

(Further Topics)

Tangents, the mean value theorem and its applications, maxima and minima, approximation and error estimate, asymptotical behavior of functions, Taylor series, radius of convergence, convexity.

3. Single variable integration

The Riemann integral and its properties. Improper integrals.

(Keywords)

Riemann sums, definite integrals, indefinite integrals, the fundamental theorem of calculus, improper integrals.

(Further Topics)

Integrals of various functions, partial fraction expansion, integrability of continuous functions, arc length, convergence of improper integrals, the Γ -function.

● **Evaluation method**

midterm and a final exam.

• **Notification**

Students can withdraw from this course if they submit a request by November 31.

Textbook

James Stewart,
Single Variable Essential Calculus, Early Transcendentals International Edition
Cengage Learning, 2006. (608 pp., ISBN: 9780495556206)

Reference Book

Health and Sports Science: Lecture

Registration code	0065211	Credits	2.0
Course Category	Health and Sports Science : Lecture	Class room	A21
Term(Semester)/Day/Period	I (1st year 1st semester) / Fri / 2 (10:30~12:00)		
Instructor	KOIKE Teruhiko		
Contact	Office: Research Center of Health, Physical Fitness and Sports, 3rd Floor Phone: 789-3963 E-mail: koike@htc.nagoya-u.ac.jp		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

Course objectives

In recent years “health” is a primary concern, especially among people middle-aged and over. This is because people are afraid of being obese and developing other lifestyle-related diseases, as a result of overeating and sedentary lifestyles. Our health system is facing problems such as the “shortage of medical resources” and “unequal opportunities to receive medical treatment mainly due to income difference” while the aging population is increasing rapidly. Is it possible to maintain the benefits of “advanced medicine” such as regenerative medicine, organ transplantation, and gene therapy? Furthermore, life span extension and advanced medicine have caused new ethical problems. These issues need to be discussed by everyone, including young university students.

The top challenge for medicine in the 21st century is the prevention of life-style related diseases. Good habits (lifestyle) from a young age are critical to having a long healthy life. In an ageing society, prevention, not just treatment, is critical for the continuation of the present health care system.

The purposes of this lecture are (1) to support the health care of each student by addressing lifestyle-related issues such as nutrition, exercise, alcohol and smoking, and (2) to help in learning essential medical issues such as cardiopulmonary resuscitation method (CPR), and the prevention of infectious diseases, and (3) to enhance the ability to discuss issues such as social security and bioethics.

Grading

Regular assignments and quizzes (60%); Final exam (40%)

Students who will not take the final examination will get “Absent” grade. The course withdrawal system won't be used.

Course Outline

Session 1

Orientation: Progress in life science and increased life expectancy

Session 2-9

Lifestyle and related diseases

- ① Lifestyles (Diet, Alcohol, Smoking, and Exercise)
- ② Obesity and Diabetes
- ③ Memory and Dementia
- ④ Atherosclerosis and Cancer
- ⑤ Ageing

Session 10-13

Infectious diseases

Session 14

Cardiopulmonary Resuscitation

Textbook	None (Reading materials will be available from the Website.)
References & Websites	Nagoya University Collaboration and Course Tools (NUCT)

Literature

Registration code	0065411	Credits	2.0
Course Category	Courses in Humanities and Social Sciences	Class	C34
Term(Semester)/Day/Period	(1st year 1st semester) / Fri / 4 (14:45~16:15)		
Instructor	MCGEE Dylan		
Office	Room 616, Integrated Research Building for Humanities and Social Sciences		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

Course Description

This course is a survey of classical Japanese literature, spanning the genres of poetry, narrative prose, and drama. Within this context, students will be introduced to basic concepts and methods in literary studies, and challenged to analyze literary texts with respect to the historical and cultural conditions that shaped their production in medieval Japan. General mastery of the course material will be assessed through class participation, written responses, quizzes, a pair of brief essays, and a final exam. All readings for this course will be in English translation. No prior background in literary studies or proficiency in Japanese language is required to enroll.

Course Aims

- Students will become familiar with basic terms and concepts used in literary studies, and develop the ability to apply these terms and concepts to the reading and analysis of literary texts
- Students will develop critical thinking and academic writing skills through a series of five written responses and a pair of academic essays
- Students will gain a deeper understanding of the classical literary tradition of Japan as well as of the social, cultural and ideological conditions that shaped this tradition throughout history

Assessment

The final grade for the course will be determined according to six categories of assessment, outlined in the paradigm below. **Participation (20%)** will be assessed on active inquiry into and perceived mastery of course material, as demonstrated in class discussions and in-class exercises. There will be six scheduled **quizzes (20%)** based on readings and material covered in class. Of these six, the top five quiz grades will be calculated towards the final quiz grade. There will be five assigned **written responses (10%)**, each 75 to 100 words in length, and written in response to a question posted before a week before the due date. The **midterm Essay (10%)**, roughly 500-750 words in length, will involve close analysis of a literary text, such as a pair of poems or an excerpt of narrative prose; it is due in hard copy on Friday, November 29th. **The Final Exam (20%)**, to be held in class on Friday, January 31st, will be comprised of ten short answer questions, to be chosen from a pool of twelve. Three of the questions will be based on written response questions posted earlier in the semester. A study guide for the exam will be posted in late December. Lastly, students will compose a brief **Final Essay (20%)**, roughly 1250-1750 words in length. Paper topics and an assignment description will be posted in mid-November; essays will be due in hard copy on the final day of class, Friday, January 31st.

	% of grade
Class Participation	20%
Quizzes	20%
Written Responses	10%
Midterm Essay	10%
Final Essay	20%
Final Exam	20%

Letter Grade Conversions		
	Global 30	NUPACE
90-100	S	A*
80-89	A	A
70-79	B	B
60-69	C	C
<60		

Other Items of Note

- 1) **Course Materials:** There are no required books to purchase for this course. All materials, including required readings, Powerpoint presentations, exam study guides, etc., can be accessed via our online course folder. Students will be sent an invitation to the online folder by e-mail after the first day of class. Additional reference materials, including critical scholarship on Japanese literature written in English, are available in our central library.
- 2) **Notification of Course Withdrawal:** Students who choose to withdraw from the course should inform me in writing by no later than *Friday, November 29th*, and provide me with a copy of the designated form ("Course Withdrawal Request").
- 3) **Permission to Enroll in the Course:** Students who would like to enroll in the course after the semester has begun should contact me no later than *Friday, October 18th* to express their interest. Permission will only be granted to students who have attended at least one of the first three class meetings.

Schedule of Readings

Subject to revision

Date	Topic	Readings
10/04	Course Introduction	
10/11	Early Scripture and Song	<ul style="list-style-type: none"> ☐ The <i>Kojiki</i>, pp. 21-44 ☐ Songs from the <i>Kojiki</i>, pp. 7-12, 19-25 (Songs #1-#5, #23-#37) ☐ Poems from the <i>Man'yōshū</i> (#MYS I: 29-31; MYS II: 167-169; MYS II: 194-195; MYS II: 220-222)
10/18	Quiz #1	Court Poetry <ul style="list-style-type: none"> ☐ Ki no Tsurayuki, Japanese Preface to the <i>Kokinshū</i>, 35-47 ☐ Selected Poems from the <i>Kokinshū</i> ☐ Ki no Tsurayuki, <i>Tosa Diary</i>, 204-213
10/25	Response #1	Court Diaries <ul style="list-style-type: none"> ☐ <i>The Pillow Book</i> (1002) ☐ <i>Murasaki Shikibu Diary</i> (ca. 1010) ☐ <i>Sarashina Diary</i> (ca. 1059)
11/01	Quiz #2	Early Monogatari Literature <ul style="list-style-type: none"> ☐ <i>Tale of the Bamboo Cutter</i>, 168-183 ☐ <i>Tales of Ise</i> ☐ <i>The Tale of Genji</i> <hr style="border-top: 1px dashed black;"/> (optional) <ul style="list-style-type: none"> ☐ Bowring, <i>Murasaki Shikibu</i> (Chapter 1), 1-21
11/08	Response #2	The Tale of Genji <ul style="list-style-type: none"> ☐ <i>The Tale of Genji</i> <hr style="border-top: 1px dashed black;"/> (optional) <ul style="list-style-type: none"> ☐ Bowring, <i>Murasaki Shikibu</i> (Chapter 2), 22-28
11/15	Quiz #3	The Tale of Genji <ul style="list-style-type: none"> ☐ <i>The Tale of Genji</i> <hr style="border-top: 1px dashed black;"/> (optional) <ul style="list-style-type: none"> ☐ Bowring, <i>Murasaki Shikibu</i> (Chapter 2), 28-41
11/17		Trip to the Tokugawa Museum <ul style="list-style-type: none"> (optional) ☐ Shimizu Yoshiaki, <i>The Rite of Writing</i>, 54-63 ☐ Yukio Lippit, <i>Figure and Facture in the Genji Scrolls</i>, 49-80
11/22		No Class Today (Research Trip)

11/29	Response #3	Genji: The Uji Chapters	☐ <i>The Tale of Genji</i> ----- (optional) ☐ Bowring, <i>Murasaki Shikibu</i> (Chapter 2), 41-52
※ Reminder: Midterm Essay Due in Class on Friday, November 29th			
12/06	Quiz #4	Military Tales	☐ <i>The Tales of Heike</i> , 51-71, 98-100, 122-143 ☐ <i>Account of My Hut</i> (1212), 197-212
12/13	Response #4	Setsuwa Literature	☐ <i>Tales of Times Now Past</i> (1112) ☐ <i>Collection of Tales from Uji</i>
12/20	Quiz #5	The Noh Theatre	☐ <i>Death of Atsumori</i> (Category 2 Play) Tyler trans. ☐ <i>Matsukaze</i> (Category 3 Play), Tyler trans. ☐ <i>Dōjōji</i> (Category 4 Play), Keene trans. ☐ <i>Sotoba Komachi</i> (Category 4 Play), Miller trans. ☐ <i>Aoi no Ue</i> (Category 4 Play), Goff trans.
>>>>			----- (optional) ☐ Takasago (1) Tyler, Hare trans. ☐ Funa Benkei (5) Tyler trans.
12/27		No Classes (Winter Break)	
1/03		No Classes (Winter Break)	
1/10	Response #5	Late Medieval Poetry	☐ Poetry of Saigyō and Sōgi
1/17		No Class (Central Exams)	
1/24	Quiz #6	Neo-Classical Prose	☐ <i>Tales of Moonlight and Rain</i> (1774)
1/31		Final Exam	
※ Reminder: Final Essay Due in Class on Friday, January 31st			

German 2

Registration code	0025501	Credits	1.5
Course Category	Language and Culture I	Class room	S14
Term(Semester)/Day/Period	I (1st year 1st semester) / Fri / 5 (16:30~18:00)		
Instructor	MATSUI Takayuki		
Contact	Office: Central Building for Liberal Arts and Sciences, Lecturers' Room Phone: Ext. 7655 E-mail: tmatsui@peach.ocn.ne.jp		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

For information on syllabus, please go to the following address.

<http://www.kyoiku-in.nagoya-u.ac.jp/syllabus2013/201211/syllabus/20130025501.html>

French 2			
Registration code	0025502	Credits	1.5
Course Category	Language and Culture I	Class room	S15
Term(Semester)/Day/Period	I (1st year 1st semester) / Fri / 5 (16:30~18:00)		
Instructor	TADOKORO Mitsuo		
Contact	Office: Integrated Research Building for Humanities and Social Sciences, 7th Floor, Room 707 Phone: 789-5311		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		
<p>Course Aims: The overall goal of the Language and Culture courses, French 1, 2, 3 and 4, is for students to develop their general language skills including reading, writing, listening, and speaking. In one of the two weekly classes, students will mainly learn basic grammar. In the other, they will develop basic skills such as pronunciation, reading, conversation, and writing tied to the grammar. The course is also designed to promote an interest in the societies and cultures of the French-speaking world. Students can obtain a basic knowledge of this.</p> <p>Course Prerequisites: This is a first-semester course. This course complements the first-semester course offered by Professor IINO Kazuo on Tuesdays, period 5.</p> <p>Course Content: Instead of learning grammar for grammar's sake students can expect to acquire a good overall command of the French language. The course follows the textbook written in Japanese. What is important is 1) Learn actively, 2) Make a note with your own words, 3) Do homework without fail.</p> <p>Course Evaluation Methods: Students are evaluated based on participation points and the final written test. Notice for Students: A Japanese-French dictionary is required.</p>			
Textbook	『初級フランス語文法』(朝日出版社) <i>Grammaire pratique du français</i> , Asahi Shuppan-sha		
Reference Book	Appropriate instructions are provided during the class.		

Russian 2			
Registration code	0025503	Credits	1.5
Course Category	Language and Culture I	Class room	S16
Term(Semester)/Day/Period	I (1st year 1st semester) / Fri / 5 (16:30~18:00)		
Instructor	SAVELIEV Igor		
Contact	Office: Graduate School of International Development, 7th Floor, Room 705 Phone: 789-4396 E-mail: saveliev@gsid.nagoya-u.ac.jp		
Target Schools (Programs)	L(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		
<p>(Course goal and objectives) The aim of this course is to introduce the basic grammar of the Russian language. The course is designed to incorporate all four language skills - reading, writing, listening and writing.</p> <p>(Course content) During the one-semester class, students will learn basic Russian grammar. Course topics 1. Pronunciation and alphabet 2. Pronunciation of the letters 3. Plurals 4. Possessive construction 5. Past tense of verbs 6. Long form of adjectives 7. Adverb derivation and impersonal sentences 8. Noun declension 9. Use of noun cases 10. Comparative and superlative expressions 11. Counters and dates 12. Relative pronouns 13. Verb forms 14. Short form of adjectives derived from verbs 15. Impersonal sentences and the expressions of price</p> <p>(Evaluation method) Evaluations will be based on participation points and test grades.</p> <p>(Notes) 1) Students should prepare for classes and actively participate in the class. 2) Exchange students, one of whose native languages is Russian, cannot take this class. 3) A dictionary must be brought to class.</p>			
Textbook	前木祥子「しっかり学ぶロシア語」(ベレ出版) MAEKI Sachiko, <i>Shikkari Manabu Roshigo</i> . Beret Publishing		
Reference Book	Students should purchase one of the following Russian-Japanese dictionaries: Kenkyusha Ro-Wa Jiten, Hakuyusha Ro-Wa Jiten, or Iwanami Ro-Wa Jiten.		

Chinese 2

Registration code	0025504	Credits	1.5
Course Category	Language and Culture I	Class room	S17
Term(Semester)/Day/Period	I (1st year 1st semester) / Fri / 5 (16:30~18:00)		
Instructor	YU Ping		
Contact	Office: Central Building for Liberal Arts and Sciences, Lecturers' Room Phone: Ext. 7655		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

For information on syllabus, please go to the following address.

<http://www.kyoiku-in.nagoya-u.ac.jp/syllabus2013/201211/syllabus/20130025504.html>

Spanish 2			
Registration code	0025505	Credits	1.5
Course Category	Language and Culture I	Class room	S18
Term(Semester)/Day/Period	I (1st year 1st semester) / Fri / 5 (16:30~18:00)		
Instructor	MITO Hiroyuki		
Contact	Office: Central Building for Liberal Arts and Sciences, North Wing, Room 305 Phone: 789-4826 E-mail: k46240a@cc.nagoya-u.ac.jp		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		
<p>(Course goal and objectives) During the relative short period of the second semester (half year), the goal is to first provide students with an overall view of the Spanish language, particularly basic grammar. Exercises applicable to the topic being studied, detailed explanations of related items using audio and visual equipment, and other methods will be used as much as possible.</p> <p>(Course prerequisites, related courses, etc.) The course is for students from all undergraduate schools studying Spanish from the fall semester. It is desirable that students also take Spanish 1 (Professor Futamura) offered during the fall semester (Tuesday, period 5).</p> <p>(Course content) Spanish 1 and 2 Both Spanish 1 and Spanish 2 are taught using the same textbook, Excerente! Therefore, instruction is provided twice a week using the same text. The following are the main topics covered in the course Chapter 1:Pronunciation and name of the letters, alphabet, vowels, consonants, rules on accents Chapter 2:Vocabulary: words that are declined and those that are not, nouns masculine and feminine, singular and plural forms Chapter 3:Nominative case of personal pronouns, ser and estar ; adjectives; demonstrative pronouns, and grammatical agreement Chapter 4:Use of ser verb: affirmative and negative questions and negative sentences, question words, time expressions A, possessive adjectives Chapter 5:Use of estar verb: preposition/adverbs, hay sentences expressing existence, comparative and superlative I (regular form) The class ends with a look at the basics of the declination of nouns and adjectives. * The mid-term test will be given after completing chapter 5. Chapter 6:Types of verbs, indicative present: regular conjugation; time expressions B; direct objects, use of pronouns; word order Chapter 7:Indirect objects: use of pronouns and word order; verbs that take indirect objects; indicative present of gustar verb Types of irregular verbs; irregular A) type: special conjugation Chapter 8:Reflexive verbs, reflexive use of pronouns, se passive, second person, irregular inflection B)Types The course will also fully cover the use of verbs and all types of objective pronouns.</p> <p>(Evaluation method) 1) Attendance: As a general rule, students may miss class no more than three times. 2) Mid-term test (expected to cover text through chapter 4): 40% 3) Final: 50% 4) Participation (exercises during class, homework, etc.) 10% Course withdrawal permitted.</p> <p>(Notes) Students should watch for announcements posted at various locations such as the bulletin board located in front of the Office of the Institute of Liberal Arts and Sciences.</p>			
Textbook	Photocopies (Prototype materials) will be distributed. 試作のプリントを配布		
Reference Book	Spanish-Japanese Dictionary, Separate material: Grammar supplements and vocabulary list		

Korean 2

Registration code	0025506	Credits	1.5
Course Category	Language and Culture I	Class room	S19
Term(Semester)/Day/Period	I (1st year 1st semester) / Fri / 5 (16:30~18:00)		
Instructor	ARAI Keiko		
Contact	Office: Central Building for Liberal Arts and Sciences, Lecturers' Room Phone: Ext. 7655		
Target Schools (Programs)	L(S) · Ec(S) · Sc(P · C · B) · En(P · C · Au) · Ag(B)		

For information on syllabus, please go to the following address.

<http://www.kyoiku-in.nagoya-u.ac.jp/syllabus2013/201211/syllabus/20130025506.html>